

Table 1: Approved mosquito larvicides for storm drains or catch basins in Oklahoma.

Trade Name*	Active Ingredient	Chemical Class	Primary Mechanism of Toxicity	Application Rate	Comments‡
Agnique MMF Mosquito Larvicide & Pupicide	Poly(oxy-1,2-ethanediyl), alpha-isooctadecyl-omega-hydroxy-	surfactant	suffocation of larvae	0.35 – 1.0 gal. /ac.	Higher rate is recommended for storm drainage areas
Aquabac 200G	<i>Bacillus thuringiensis</i>	biopesticide	cell membrane disruption of immature insects	10 – 20 lbs. / ac.	Higher rate is recommended for polluted waters
Bactimos Pellets	<i>Bacillus thuringiensis</i>	biopesticide	cell membrane disruption of immature insects	5 – 8 lbs. /ac.	Higher rate for polluted waters
Bayer Advanced Garden Mosquito Preventer RTU Granules	<i>Bacillus thuringiensis</i>	biopesticide	cell membrane disruption of immature insects	1 cup / 1,200 sq. ft.	Mainly for containers in and around homes
Bonide Mosquito Beater Plunks Wsp	<i>Bacillus thuringiensis</i>	biopesticide	cell membrane disruption of immature insects	2 – 4 pouches / 50 – 100 sq. ft.	Available in water soluble pouches
BVA 2 Mosquito Larvicide Oil	Mineral Oil	oil	suffocation of larvae	3 – 5 gal. /ac.	Do not apply to areas where pets could possibly drink the water. (contains oil distillates)
Consume MP	<i>Bacillus thuringiensis</i>	biopesticide	cell membrane disruption of immature insects	2.5 – 10 lbs. / ac.	Can use a rate of 10 – 20 lbs. /ac. for heavily polluted water
FFAST BTI	<i>Bacillus thuringiensis</i>	biopesticide	cell membrane disruption of immature insects	8 – 16 fl. oz. / ac.	Best applied with a ULV machine
NATULAR 2EC	Spinosad	Macrocyclic lactone	Hyperexcitation	2 - 2.8 fl. oz. / ac.	Labeled for local and city government use only or a licensed applicator

NATULAR G30	Spinosad	Macrocyclic lactone	Hyperexcitation	5 – 20 lbs. / ac.	Extended release granule product and is labeled for local and city government use only or a licensed applicator
NATULAR XRT	Spinosad	Macrocyclic lactone	Hyperexcitation	1 tablet / 100 sq. ft.	Extended release tablet and labeled for local and city government use only or a licensed applicator
Spheratax SPH (50 G)	<i>Bacillus sphaericus</i>	biopesticide	interference with normal cell regulation	5 – 20 lbs. / ac.	Recommended to use a higher rate (10 – 20 lbs. / ac.) of longer residual control or where water has dense surface cover
Spheratax SPH (50G) WSP	<i>Bacillus sphaericus</i>	biopesticide	interference with normal cell regulation	1 pouch / 50 sq. ft.	Water soluble pouch
Teknar HP-D	<i>Bacillus thuringiensis</i>	biopesticide	cell membrane disruption of immature insects	0.25 - 1.0 pts. / ac.	Use lower rate for small larvae (1 st – 3 rd instars) and the higher rate for larger larvae (3 rd – 4 th instar)
Vectobac 12As Biological Larvicide	<i>Bacillus thuringiensis</i>	biopesticide	cell membrane disruption of immature insects	0.25 – 2 pts. / ac.	Use a rate of 1 – 2 lbs. in heavily polluted waters; this is an aqueous solution
Vectobac G Biological Larvicide Granules	<i>Bacillus thuringiensis</i>	biopesticide	cell membrane disruption of immature insects	2.5 – 10 lbs. / ac.	Use 10 – 20 lbs. /ac. when mosquito populations are high or when larger larvae are present (3 rd – 4 th instar) or in heavily polluted water
Vectolex Cg Biological Larvicide	<i>Bacillus sphaericus</i>	biopesticide	interference with normal cell regulation	5 – 20 lbs. / ac.	Use higher rates 10 – 20 lbs. /ac. in areas where extended residual control is necessary, or in habitats having deep water (> 2 ft.), or dense surface cover

Vectolex Wdg Biological Larvicide	<i>Bacillus sphaericus</i>	biopesticide	interference with normal cell regulation	0.5 – 1.5 lbs. / ac.	Water dispersible granule that requires agitation or circulation to the tank mix before this product can be added
Vectolex WSP Biological Larvicide	<i>Bacillus sphaericus</i>	biopesticide	interference with normal cell regulation	1 pouch / 50 sq. ft.	Water soluble pouch that should be applied on basis of <u>potential</u> mosquito breeding habitats
Vectolex(R) FG Biological Larvicide	<i>Bacillus sphaericus</i>	biopesticide	interference with normal cell regulation	5 – 20 lbs. /ac.	Use higher rates 10 – 20 lbs. /ac. in areas where extended residual control is necessary, or in habitats having deep water (> 2 ft.), or dense surface cover
Zoecon Altosid Liquid Larvicide Mosquito Growth Regulator (ALL)	Methoprene	synthetic juvenile hormone	inhibition of immature insect growth	3 – 4 fl. oz. / ac.	Can be mixed with <i>Bt</i> products with a range of 6:1 to 12.5:1 ratio of <i>Bt</i> to ALL®. Do not mix with any oil products and be sure the tank mix is agitated before applying
Zoecon Altosid Liquid Larvicide Concentrate	Methoprene	synthetic juvenile hormone	inhibition of immature insect growth	¾ - 1 fl. oz. / ac.	Can be mixed with <i>Bt</i> products with a range of 24:1 to 50:1 ratio of <i>Bt</i> to ALL®. Do not mix with any oil products and be sure the tank mix is agitated before applying
Zoecon Altosid Pellets	Methoprene	synthetic juvenile hormone	inhibition of immature insect growth	5 – 10 lbs. / ac.	Use higher rate 10 lbs. /ac. in areas where extended residual control is necessary, or in habitats having deep water (> 2 ft.), or dense surface cover
Zoecon Altosid Pellets WSP	Methoprene	synthetic juvenile hormone	inhibition of immature insect growth	1 pouch / 135 sq. ft.	Labeled as a continual release product that will suppress developing mosquitoes for 30 days

Zoecon Altosid SBG Single Brood Granule	Methoprene	synthetic juvenile hormone	inhibition of immature insect growth	5 – 20 lbs. /ac.	Use higher rates 10 – 20 lbs. /ac. for storm drainage breeding Culex spp. mosquitoes and in areas where extended residual control is necessary, or in habitats having deep water (> 2 ft.), or dense surface cover
Zoecon Altosid XR Extended Residual Briquets	Methoprene	synthetic juvenile hormone	inhibition of immature insect growth	1 briquet / 100 sq. ft.	Application rate will increase with every 2 ft. increase in depth of water level. This product releases sufficient amount of methoprene to provide 150 days of extended suppression of mosquito larval development
Zoecon Altosid Xr-granule	Methoprene	synthetic juvenile hormone	inhibition of immature insect growth	5 – 20 lbs. /ac.	Use higher rates 10 – 20 lbs. /ac. for storm drainage breeding Culex spp. mosquitoes and in areas where extended residual control is necessary, or in habitats having deep water (> 2 ft.), or dense surface cover

* All listed products are registered trademark products (®).

‡ All comments are recommendations that will aid in the dissemination of these products that come from the product label (Read and follow label directions carefully).